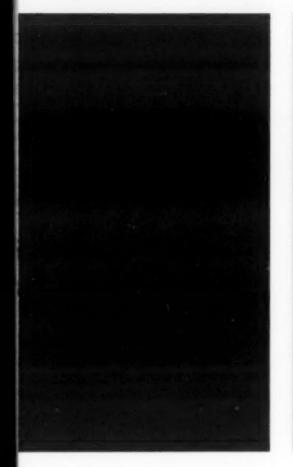
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omeging reperior, or commentation potential energy current	()

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ergy band in the photoelectron spectra of phosphatidylcholines, Chem. Phys. Letters	
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	5; 138 (1987) 168
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	()

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Gadre, S.R. and S.J. Chakravorty, The average electron momentum density and rigorous	1972/12/10	
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Georgiou, S. and C.A. Wight, Photofragment spectroscopy of η-cyclopentadienylnickel nitrosyl 122 (1986) 511 (1987) 306 Geriack, Ph., S. Löffler and K.H. Homann, Polyhedral carbon ions in hydrocarbon flames Gericke, KH., See A.U. Grunewald 132 (1986) 121; 133 (1987) 306 Gericke, KH., S. Klee and F.J. Comes, Rotational anisotropy and product state distribution in the photodissociation of deuterium peroxide 137 (1987) 501 Gerlach-Meyer, U., E. Linnebach, K. Kleinermanns and J. Wolfrum, H-atom photofragments from H_2O_2 dissociated at 193 nm 133 (1987) 113 (1987) 296 Gersonde, I., see H. Kühle 132 (1986) 570 Gex, J.N., C. Daul and A. von Zelewsky, Rapid exchange of Ca^{2+} between the bulk and the coordination site of ascorbic acid radical anion as observed by ESR spectroscopy Gibson, E.M., A.C. Jones and D. Phillips, 4-N,N-dimethylaminobenzonitrile: the absence of a^{2+} fluorescence under jet-cooled conditions 134 (1987) 454 (1987) 454 (1987) 455 (1987) 455 (1987) 455 (1987) 455 (1987) 455 (1987) 455 (1987) 455 (1987) 455 (1987) 455 (1987) 455 (1987) 455 (1987) 455 (1987) 455 (1987) 455 (1987) 455 (1987) 455 (1987) 455 (1987) 455 (1987) 455 (1987) 455 (1987) 455 (1987) 455 (1987) 455 (1987) 455 (1987) 455 (1987) 455 (1987) 455 (1987) 455 (1987) 455 (1987) 455 (1987) 455 (1987) 455 (1987) 455 (1987) 455 (1987) 455 (1987) 455 (1987) 455 (1987) 455 (1987) 455 (1987) 455 (1987) 455 (1987) 455 (1987) 455 (1987) 455 (1987) 455 (1987) 455 (1987) 455 (1987) 455 (1987) 455 (1987) 455 (1987) 455 (1987) 455 (1987) 455 (1987) 455 (1987) 455 (1987) 455 (1987) 455 (1987) 455 (1987) 455 (1987) 455 (1987) 455 (1987) 455 (1987) 455 (1987) 455 (1987) 455 (1987) 455 (1987) 455 (1987) 455 (1987) 455 (1987) 455 (1987) 455 (1987) 455 (1987) 455 (1987) 455 (1987) 455 (1987) 455 (1987) 455 (1987) 455 (1987) 455 (1987) 455 (1987) 455 (1987) 455 (1987) 455 (1987) 455 (1987) 455 (1987) 455 (1987) 455 (1987) 455 (1987) 455 (1987) 455 (1987) 455 (1987) 455 (1987) 455 (1987) 455 (1987) 455 (1987) 455 (1987) 455 (1987) 455 (1987) 4		
nitrosyl Gerhardt, Ph., S. Löffler and K.H. Homann, Polyhedral carbon ions in hydrocarbon flames Gericke, KH., see A.U. Grunewald Gericke, KH., S. Klee and F.J. Comes, Rotational anisotropy and product state distribution in the photodissociation of deuterium peroxide Gerlach-Meyer, U., E. Linnebach, K. Kleinermanns and J. Wolfrum, H-atom photofragments from H₂O, dissociated at 193 nm Gerratt, J., see D.L. Cooper Gersonde, I., see H. Kühle Gex, J.N., C. Daul and A. von Zelewsky, Rapid exchange of Ca²+ between the bulk and the coordination site of ascorbic acid radical anion as observed by ESR spectroscopy Gibson, E.M., A.C. Jones and D. Phillips, 4-N,N-dimethylaminobenzonitrile: the absence of a² fluorescence under jet-cooled conditions Gien, T.T., Core-corrected modified Glauber approximation for e²-alkali-metal-atom collisions Gill, P.M.W. and L. Radom, Deceptive convergence in Møller-Plesset perturbation energies Gill, P.M.W. and L. Radom, Deceptive convergence in Møller-Plesset perturbation energies Gill, P.M.W. and L. Radom, A rationalization of unusually late transition structures for dication fragmentations Gillies, C.W., see J. Zozom Gillies, C.W., see J. Zozom Gillies, C.W., see J. Zozom Girard, B., N. Billy, G. Gouedard and J. Vigué, LIF study of the I₂+F→IF+I reaction: Population of the v" = 0 level of IF Girard, C., see C. Girardet Girard, C., see C. Girardet Girardeu, M.D. and C.I. Ivanov, Space-time correlation function representation of reactive scattering by large systems Girardet, C. and C. Girard, A structure registry condition for the interaction energy between two solids Girardet, C., see C. Girard Sidy, J.A. and S.H. Walmsley, A model of the effects of pressure on the near ultraviolet absorption spectrum of crystalline naphthalene 135 (1987) 275 Gislason, E.A., see M. Sizun 136 (1987) 275 Gislason, E.A., see M. Sizun		
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complex, Chem. Phys. Letters 132 (1986) 67. Erratum	135 (1987) 486
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organic radicals, Chem. Phys. Letters 133 (1987) 465. Erratum	137 (1987) 398
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sions, Chem. Phys. Letters 135 (1987) 427. Erratum	138 (1987) 615
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of transient species in the photochromism of 1' 3' 3'-trimethylspiro-12H-1-henzo-	
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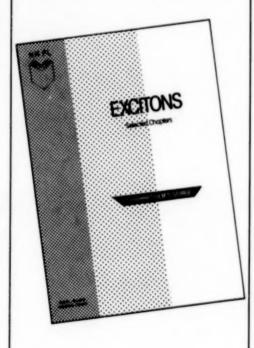
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